

# 7

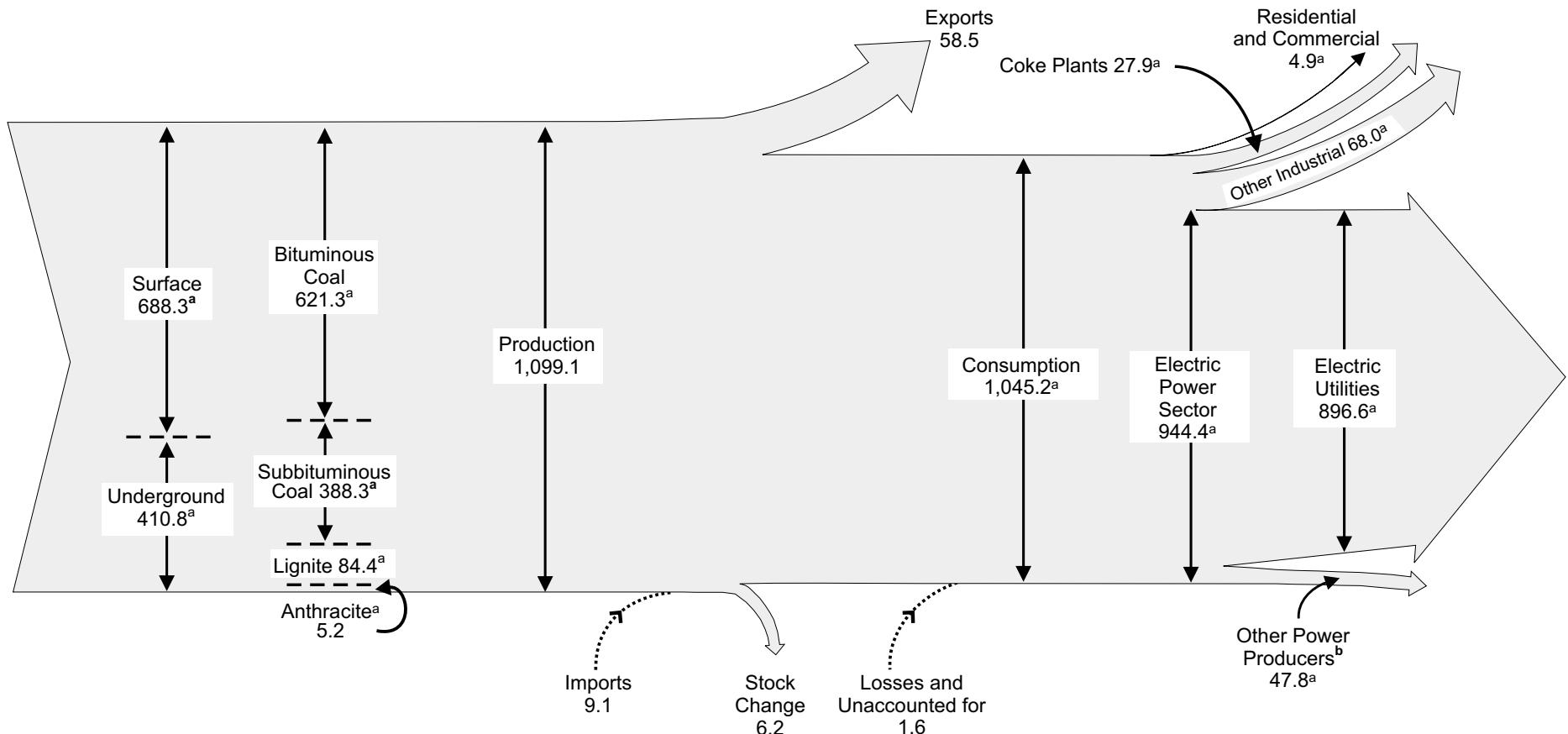
# Coal



Coal yard, Curtis Bay, Maryland. Source: U.S. Department of Energy.



**Diagram 4. Coal Flow, 1999**  
(Million Short Tons)



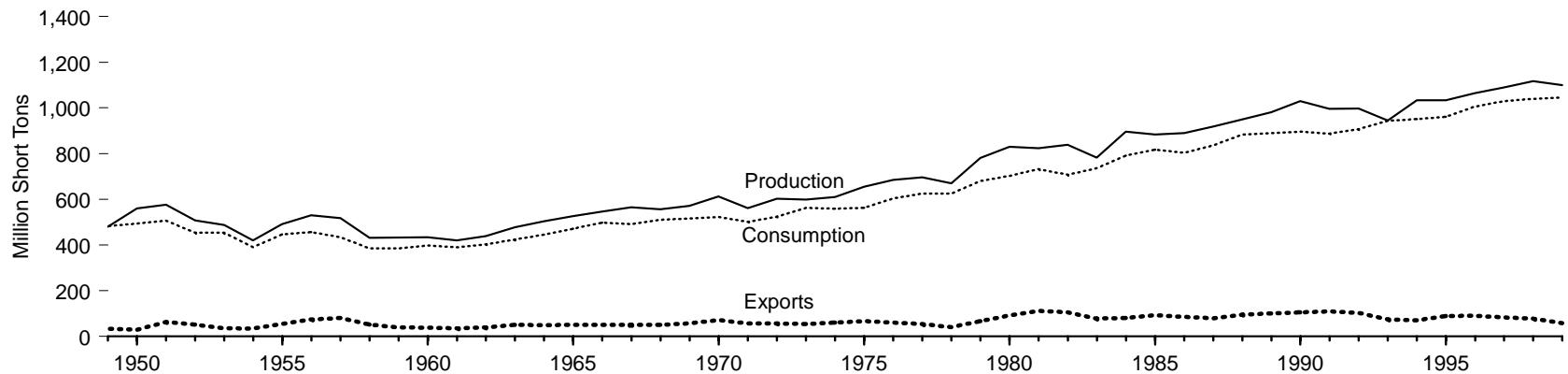
<sup>a</sup> Estimated.

<sup>b</sup> Nonutility wholesale producers of electricity, and nonutility cogeneration plants that are not included in the end-use sectors.

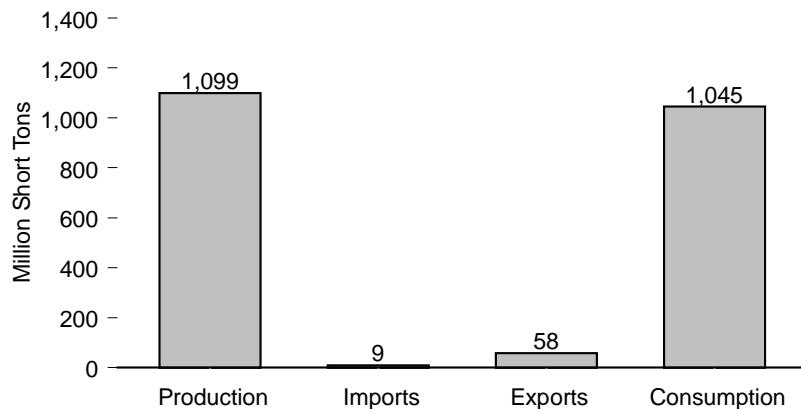
Notes: • Data are preliminary. • Totals may not equal sum of components due to independent rounding.  
Sources: Tables 7.1, 7.2, and 7.3.

## Figure 7.1 Coal Overview

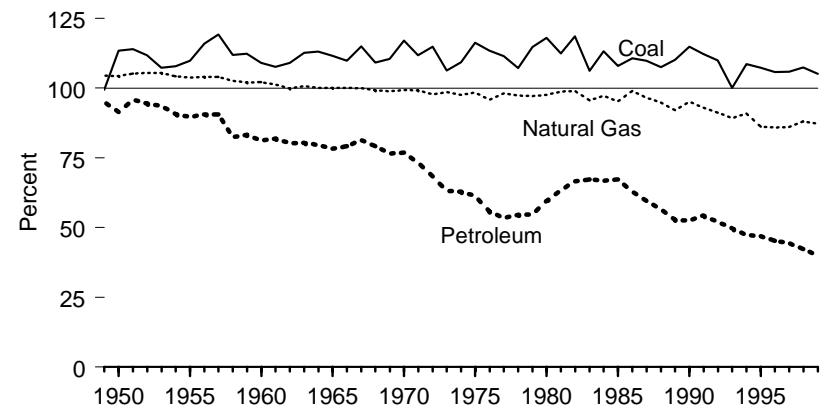
Overview, 1949-1999



Overview, 1999



Production as Share of Consumption by Type of Fossil Fuel, 1949-1999



Sources: Tables 5.1, 6.1, and 7.1.

**Table 7.1 Coal Overview, 1949-1999**  
(Million Short Tons)

Year	Production	Imports	Exports	Stock Change <sup>1</sup>	Losses and Unaccounted for <sup>2</sup>	Consumption <sup>3</sup>
1949	480.6	0.3	32.8	(4)	5-35.1	483.2
1950	560.4	0.4	29.4	(4)	59.5	494.1
1951	576.3	0.3	62.7	(4)	53.5	505.9
1952	507.4	0.3	52.2	(4)	50.8	454.1
1953	488.2	0.3	36.5	(4)	5-6.9	454.8
1954	420.8	0.2	33.9	(4)	58.1	389.9
1955	490.8	0.3	54.4	(4)	5-6.3	447.0
1956	529.8	0.4	73.8	(4)	5-10.2	456.9
1957	518.0	0.4	80.8	(4)	50.8	434.5
1958	431.6	0.3	52.6	(4)	5-1.3	385.7
1959	432.7	0.4	39.0	(4)	59.2	385.1
1960	434.3	0.3	38.0	(4)	51.7	398.1
1961	420.4	0.2	36.4	(4)	5-4.0	390.4
1962	439.0	0.2	40.2	(4)	5-1.5	402.3
1963	477.2	0.3	50.4	(4)	53.3	423.5
1964	504.2	0.3	49.5	(4)	54.0	445.7
1965	527.0	0.2	51.0	(4)	52.2	472.0
1966	546.8	0.2	50.1	(4)	52.2	497.7
1967	564.9	0.2	50.1	(4)	54.6	491.4
1968	556.7	0.2	51.2	(4)	53.5	509.8
1969	571.0	0.1	56.9	(4)	52.9	516.4
1970	612.7	(s)	71.7	(4)	56.6	523.2
1971	560.9	0.1	57.3	(4)	54.2	501.6
1972	602.5	(s)	56.7	(4)	5-4.3	524.3
1973	598.6	0.1	53.6	(4)	5-17.9	562.6
1974	610.0	2.1	60.7	-8.9	2.0	558.4
1975	654.6	0.9	66.3	32.2	-5.5	562.6
1976	684.9	1.2	60.0	8.5	13.8	603.8
1977	697.2	1.6	54.3	22.6	-3.4	625.3
1978	670.2	3.0	40.7	-4.9	12.1	625.2
1979	781.1	2.1	66.0	36.2	0.4	680.5
1980	829.7	1.2	91.7	25.6	10.8	702.7
1981	823.8	1.0	112.5	-19.0	-1.4	732.6
1982	838.1	0.7	106.3	22.6	3.1	706.9
1983	782.1	1.3	77.8	-29.5	-1.6	736.7
1984	895.9	1.3	81.5	28.7	-4.3	791.3
1985	883.6	2.0	92.7	-27.9	2.8	818.0
1986	890.3	2.2	85.5	4.0	-1.2	804.2
1987	918.8	1.7	79.6	6.5	-2.5	836.9
1988	950.3	2.1	95.0	-24.9	-1.3	883.6
1989	980.7	2.9	100.8	-13.7	6.8	889.7
1990	1,029.1	2.7	105.8	26.5	3.9	895.5
1991	996.0	3.4	109.0	-0.9	3.7	887.6
1992	997.5	3.8	102.5	-3.0	-5.8	<sup>3</sup> 907.7
1993	945.4	R8.2	74.5	-51.9	R-13.1	944.1
1994	1,033.5	R8.9	71.4	23.6	R-4.1	951.5
1995	1,033.0	R9.5	88.5	-0.3	R-7.9	962.0
1996	1,063.9	R8.1	90.5	-17.5	R-6.6	1,005.6
1997	1,089.9	7.5	83.5	-11.3	-4.1	1,029.2
1998	R1,117.5	8.7	R78.0	R24.2	R-16.1	R1,040.1
1999	R1,099.1	R9.1	R58.5	R6.2	R-1.6	R1,045.2

<sup>1</sup> Includes changes in stocks at electric utilities, coke plants, other industries, retail dealers, producers and distributors. A negative value indicates a net decrease in stocks; a positive value indicates a net increase in stocks.

<sup>2</sup> "Losses and Unaccounted for" is calculated as the sum of production and imports minus exports, stock change, and consumption.

<sup>3</sup> Independent power producers' use of coal (nonutility power producers in SIC 49, "Electric Gas, and Sanitary Services") are included beginning in 1992. See Table 7.3.

<sup>4</sup> Included in "Losses and Unaccounted for."

<sup>5</sup> Includes "Stock Change."

R=Revised. P=Preliminary. E=Estimate. (s)=Less than 0.05 million short tons.

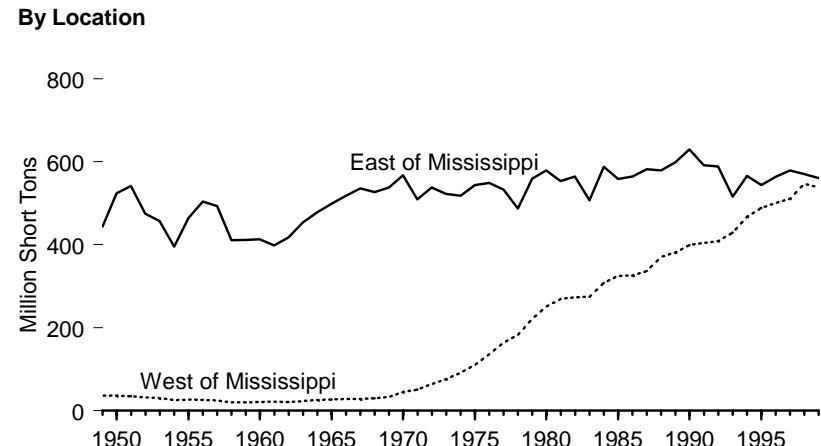
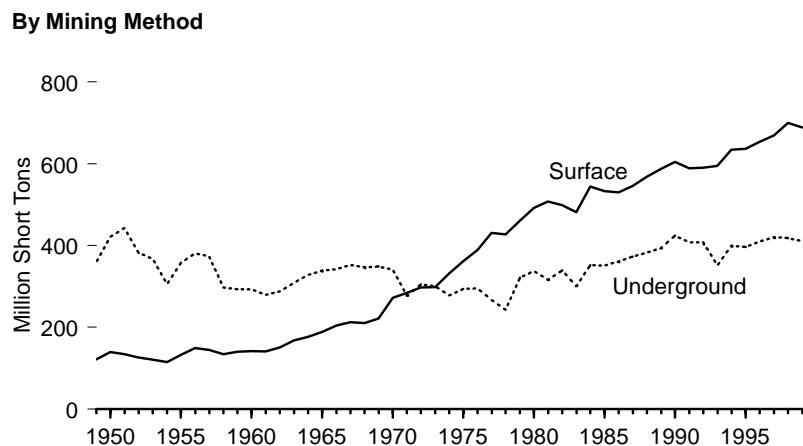
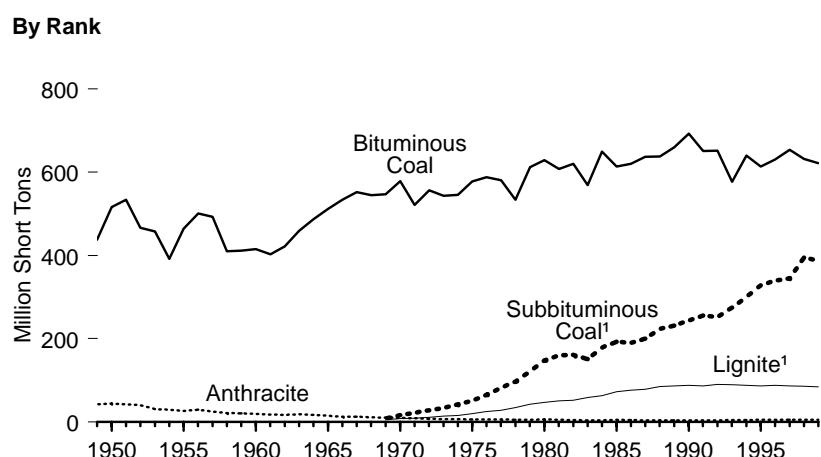
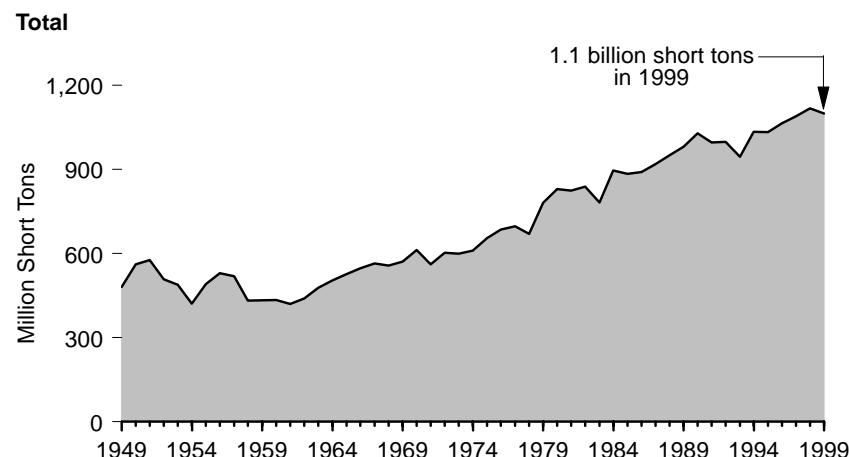
Note: Totals may not equal sum of components due to independent rounding.

Web Page: <http://www.eia.doe.gov/fuelcoal.html>.

Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite" and "Coal-Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), Energy Data Report, *Coal-Bituminous and Lignite in 1976* and *Coal-Pennsylvania Anthracite 1976*. • 1977 and 1978—EIA, Energy Data Reports, *Bituminous Coal and Lignite Production and Mine Operations-1977*; *1978* and *Coal-Pennsylvania Anthracite 1977; 1978*. • 1979 and 1980—EIA, Energy Data Report, *Weekly Coal Report*. • 1981-1988—EIA, *Weekly Coal Production and Coal Production*, annual reports. • 1989-1998—EIA, *Coal Industry Annual*, annual reports. • 1999—Tables 7.2, 7.3, 7.4, 7.5, of this report, and EIA, *Quarterly Coal Report October-December 1999* (May 2000), Table 6.

**Figure 7.2 Coal Production, 1949-1999**

---



<sup>1</sup> Included with bituminous coal prior to 1969.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 7.2.

**Table 7.2 Coal Production, 1949-1999**

(Million Short Tons)

Year	Rank				Mining Method		Location		Total
	Bituminous Coal	Subbituminous Coal	Lignite	Anthracite	Underground	Surface	West of the Mississippi	East of the Mississippi	
1949	437.9	( 1 )	( 1 )	42.7	358.9	121.7	36.4	444.2	480.6
1950	516.3	( 1 )	( 1 )	44.1	421.0	139.4	36.0	524.4	560.4
1951	533.7	( 1 )	( 1 )	42.7	442.2	134.2	34.6	541.7	576.3
1952	466.8	( 1 )	( 1 )	40.6	381.2	126.3	32.7	474.8	507.4
1953	457.3	( 1 )	( 1 )	30.9	367.4	120.8	30.6	457.7	488.2
1954	391.7	( 1 )	( 1 )	29.1	306.0	114.8	25.4	395.4	420.8
1955	464.6	( 1 )	( 1 )	26.2	358.0	132.9	26.6	464.2	490.8
1956	500.9	( 1 )	( 1 )	28.9	380.8	148.9	25.8	504.0	529.8
1957	492.7	( 1 )	( 1 )	25.3	373.6	144.5	24.7	493.4	518.0
1958	410.4	( 1 )	( 1 )	21.2	297.6	134.0	20.3	411.3	431.6
1959	412.0	( 1 )	( 1 )	20.6	292.8	139.8	20.3	412.4	432.7
1960	415.5	( 1 )	( 1 )	18.8	292.6	141.7	21.3	413.0	434.3
1961	403.0	( 1 )	( 1 )	17.4	279.6	140.9	21.8	398.6	420.4
1962	422.1	( 1 )	( 1 )	16.9	287.9	151.1	21.4	417.6	439.0
1963	458.9	( 1 )	( 1 )	18.3	309.0	168.2	23.7	453.5	477.2
1964	487.0	( 1 )	( 1 )	17.2	327.7	176.5	25.7	478.5	504.2
1965	512.1	( 1 )	( 1 )	14.9	338.0	189.0	27.4	499.5	527.0
1966	533.9	( 1 )	( 1 )	12.9	342.6	204.2	28.0	518.8	546.8
1967	552.6	( 1 )	( 1 )	12.3	352.4	212.5	28.9	536.0	564.9
1968	545.2	( 1 )	( 1 )	11.5	346.6	210.1	29.7	527.0	556.7
1969	547.2	8.3	5.0	10.5	349.2	221.7	33.3	537.7	571.0
1970	578.5	16.4	8.0	9.7	340.5	272.1	44.9	567.8	612.7
1971	521.3	22.2	8.7	8.7	277.2	283.7	51.0	509.9	560.9
1972	556.8	27.5	11.0	7.1	305.0	297.4	64.3	538.2	602.5
1973	543.5	33.9	14.3	6.8	300.1	298.5	76.4	522.1	598.6
1974	545.7	42.2	15.5	6.6	278.0	332.1	91.9	518.1	610.0
1975	577.5	51.1	19.8	6.2	293.5	361.2	110.9	543.7	654.6
1976	588.4	64.8	25.5	6.2	295.5	389.4	136.1	548.8	684.9
1977	581.0	82.1	28.2	5.9	266.6	430.6	163.9	533.3	697.2
1978	534.0	96.8	34.4	5.0	242.8	427.4	183.0	487.2	670.2
1979	612.3	121.5	42.5	4.8	320.9	460.2	221.4	559.7	781.1
1980	628.8	147.7	47.2	6.1	337.5	492.2	251.0	578.7	829.7
1981	608.0	159.7	50.7	5.4	316.5	507.3	269.9	553.9	823.8
1982	620.2	160.9	52.4	4.6	339.2	499.0	273.9	564.3	838.1
1983	568.6	151.0	58.3	4.1	300.4	481.7	274.7	507.4	782.1
1984	649.5	179.2	63.1	4.2	352.1	543.9	308.3	587.6	895.9
1985	613.9	192.7	72.4	4.7	350.8	532.8	324.9	558.7	883.6
1986	620.1	189.6	76.4	4.3	360.4	529.9	325.9	564.4	890.3
1987	636.6	200.2	78.4	3.6	372.9	545.9	336.8	581.9	918.8
1988	638.1	223.5	85.1	3.6	382.2	568.1	370.7	579.6	950.3
1989	659.8	231.2	86.4	3.3	393.8	586.9	381.7	599.0	980.7
1990	693.2	244.3	88.1	3.5	424.5	604.5	398.9	630.2	1,029.1
1991	650.7	255.3	86.5	3.4	407.2	588.8	404.7	591.3	996.0
1992	651.8	252.2	90.1	3.5	407.2	590.3	409.0	588.6	997.5
1993	576.7	274.9	89.5	4.3	351.1	594.4	429.2	516.2	945.4
1994	640.3	300.5	88.1	4.6	399.1	634.4	467.2	566.3	1,033.5
1995	613.8	328.0	86.5	4.7	396.2	636.7	488.7	544.2	1,033.0
1996	630.7	340.3	88.1	4.8	409.8	654.0	500.2	563.7	1,063.9
1997	653.8	345.1	86.3	4.7	420.7	669.3	510.6	579.4	1,089.9
1998	R631.7	R394.8	R85.8	R5.3	R417.7	R699.8	R547.0	570.6	R1,117.5
1999	E621.3	E388.3	E84.4	E5.2	E410.8	E688.3	E537.9	E561.2	E1,099.1

<sup>1</sup> Included in bituminous coal.

R=Revised. P=Preliminary. E=Estimated.

Note: Totals may not equal sum of components due to independent rounding.

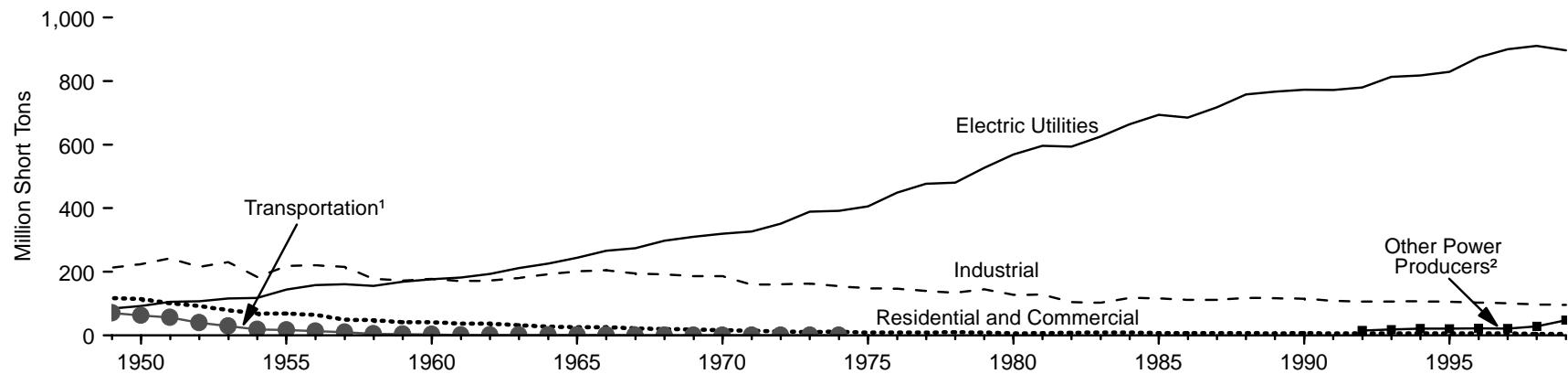
Web Page: <http://www.eia.doe.gov/fuelcoal.html>.

Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite" and "Coal-Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), Energy Data Report, *Coal-Bituminous and Lignite in 1976* and *Coal-Pennsylvania Anthracite 1976*. • 1977 and

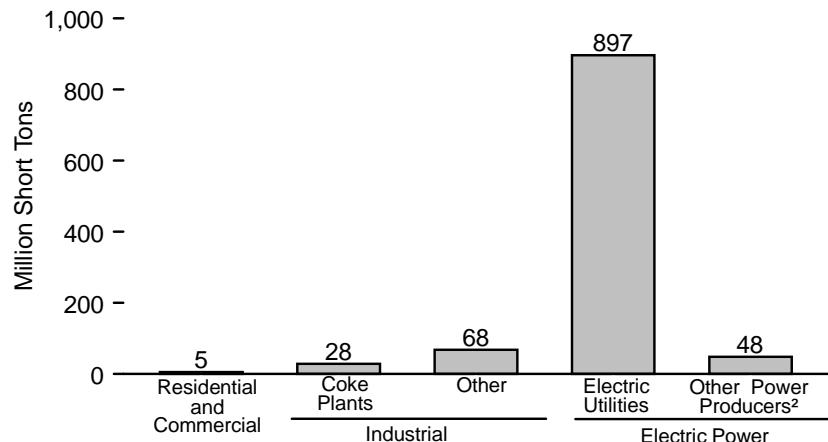
1978—EIA, Energy Data Report, *Bituminous Coal and Lignite Production and Mine Operations-1977; 1978, Coal-Pennsylvania Anthracite 1977; 1978*; and *Coal Production*, annual reports. • 1979 and 1980—EIA, Energy Data Report, *Weekly Coal Report* and *Coal Production*, annual reports. • 1981-1988—EIA, *Weekly Coal Production* and *Coal Production*, annual reports. • 1989-1997—EIA, *Coal Industry Annual*, annual reports. • 1998—EIA, Form EIA-7A, "Coal Production Report." • 1999—EIA estimates and *Quarterly Coal Report October-December 1999* (May 2000), Table 4.

**Figure 7.3 Coal Consumption by Sector**

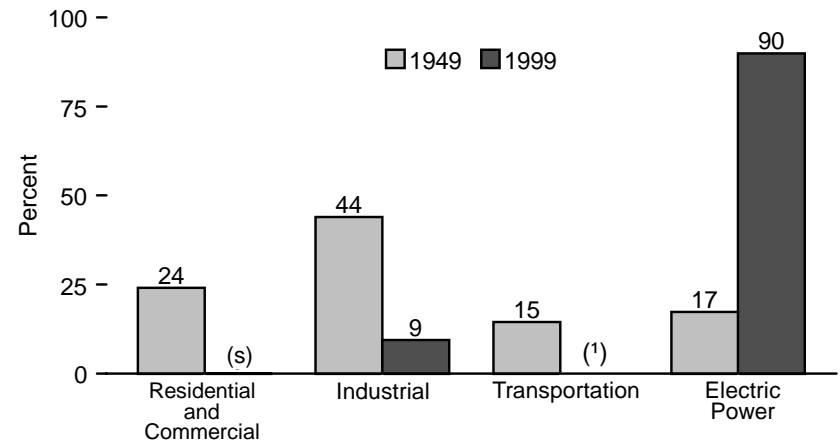
**By Sector, 1949-1999**



**By Sector, 1999**



**Shares by Sector, 1949 and 1999**



<sup>1</sup> Quantities for 1975, 1976, and 1977 are less than 0.5 million short tons. After 1977, small amounts of coal consumed by the transportation sector are included in "Industrial."

(s)=Less than 0.5 percent.  
Source: Table 7.3.

<sup>2</sup> Nonutility wholesale producers of electricity and cogeneration plants not included in the end-use sectors.

**Table 7.3 Coal Consumption by Sector, 1949-1999**  
 (Million Short Tons)

Year	End-Use Sectors <sup>1</sup>				Electric Power Sector					
	Residential and Commercial	Industrial			Transportation	Electric Utilities	Other Power Producers <sup>2</sup>	Total		
		Coke Plants	Other	Total						
1949	116.5	91.4	121.2	212.6	70.2	84.0	NA	84.0	483.2	
1950	114.6	104.0	120.6	224.6	63.0	91.9	NA	91.9	494.1	
1951	101.5	113.7	128.7	242.4	56.2	105.8	NA	105.8	505.9	
1952	92.3	97.8	117.1	214.9	39.8	107.1	NA	107.1	454.1	
1953	79.2	113.1	117.0	230.1	29.6	115.9	NA	115.9	454.8	
1954	69.1	85.6	98.2	183.9	18.6	118.4	NA	118.4	389.9	
1955	68.4	107.7	110.1	217.8	17.0	143.8	NA	143.8	447.0	
1956	64.2	106.3	114.3	220.6	13.8	158.3	NA	158.3	456.9	
1957	49.0	108.4	106.5	214.9	9.8	160.8	NA	160.8	434.5	
1958	47.9	76.8	100.5	177.4	4.7	155.7	NA	155.7	385.7	
1959	40.8	79.6	92.7	172.3	3.6	168.4	NA	168.4	385.1	
1960	40.9	81.4	96.0	177.4	3.0	176.7	NA	176.7	398.1	
1961	37.3	74.2	95.9	170.1	0.8	182.2	NA	182.2	390.4	
1962	36.5	74.7	97.1	171.7	0.7	193.3	NA	193.3	402.3	
1963	31.5	78.1	101.9	180.0	0.7	211.3	NA	211.3	423.5	
1964	27.2	89.2	103.1	192.4	0.7	225.4	NA	225.4	445.7	
1965	25.7	95.3	105.6	200.8	0.7	244.8	NA	244.8	472.0	
1966	25.6	96.4	108.7	205.1	0.6	266.5	NA	266.5	497.7	
1967	22.1	92.8	101.8	194.6	0.5	274.2	NA	274.2	491.4	
1968	20.0	91.3	100.4	191.6	0.4	297.8	NA	297.8	509.8	
1969	18.9	93.4	93.1	186.6	0.3	310.6	NA	310.6	516.4	
1970	16.1	96.5	90.2	186.6	0.3	320.2	NA	320.2	523.2	
1971	15.2	83.2	75.6	158.9	0.2	327.3	NA	327.3	501.6	
1972	11.7	87.7	72.9	160.6	0.2	351.8	NA	351.8	524.3	
1973	11.1	94.1	68.0	162.1	0.1	389.2	NA	389.2	562.6	
1974	11.4	90.2	64.9	155.1	0.1	391.8	NA	391.8	558.4	
1975	9.4	83.6	63.6	147.2	(s)	406.0	NA	406.0	562.6	
1976	8.9	84.7	61.8	146.5	(s)	448.4	NA	448.4	603.8	
1977	9.0	77.7	61.5	139.2	(s)	477.1	NA	477.1	625.3	
1978	9.5	71.4	63.1	134.5	(3)	481.2	NA	481.2	625.2	
1979	8.4	77.4	67.7	145.1	(3)	527.1	NA	527.1	680.5	
1980	6.5	66.7	60.3	127.0	(3)	569.3	NA	569.3	702.7	
1981	7.4	61.0	67.4	128.4	(3)	596.8	NA	596.8	732.6	
1982	8.2	40.9	64.1	105.0	(3)	593.7	NA	593.7	706.9	
1983	8.4	37.0	66.0	103.0	(3)	625.2	NA	625.2	736.7	
1984	9.1	44.0	73.7	117.8	(3)	664.4	NA	664.4	791.3	
1985	7.8	41.1	75.4	116.4	(3)	693.8	NA	693.8	818.0	
1986	7.7	35.9	75.6	111.5	(3)	685.1	NA	685.1	804.2	
1987	6.9	37.0	75.2	112.1	(3)	717.9	NA	717.9	836.9	
1988	7.1	41.9	76.3	118.1	(3)	758.4	NA	758.4	883.6	
1989	6.2	40.5	76.1	116.6	(3)	766.9	NA	766.9	889.7	
1990	6.7	38.9	76.3	115.2	(3)	773.5	NA	773.5	895.5	
1991	6.1	33.9	75.4	109.3	(3)	772.3	NA	772.3	887.6	
1992	6.2	32.4	74.0	106.4	(3)	779.9	15.2	4795.1	4907.7	
1993	6.2	31.3	74.9	106.2	(3)	813.5	18.1	831.6	944.1	
1994	6.0	31.7	75.2	106.9	(3)	817.3	21.3	838.5	951.5	
1995	5.8	33.0	73.1	106.1	(3)	829.0	21.2	850.2	962.0	
1996	6.0	31.7	70.9	102.6	(3)	874.7	22.2	896.9	1,005.6	
1997	6.5	30.2	70.6	100.8	(3)	900.4	21.6	922.0	1,029.2	
1998	R4.9	R28.2	R68.1	R96.3	(3)	910.9	R28.1	R938.9	R1,040.1	
1999 <sup>E</sup>	4.9	27.9	68.0	95.9	(3)	896.6	47.8	944.4	1,045.2	

<sup>1</sup> Over half of the coal consumption at nonutility power producers is included in the end-use sectors.

<sup>2</sup> Nonutility wholesale producers of electricity, and nonutility cogeneration plants that are not included in the end-use sectors.

<sup>3</sup> After 1977, small amounts of coal consumed by the Transportation Sector are included in "Other" under the Industrial Sectors.

<sup>4</sup> There is a discontinuity in this time series between 1991 and 1992 due to the addition of the coal consumed by independent power producers beginning in 1992.

R=Revised. E=Estimated. NA=Not available. (s)=Less than 0.05 million short tons.

Notes: • See Note at end of section. • Totals may not equal sum of components due to independent

rounding.

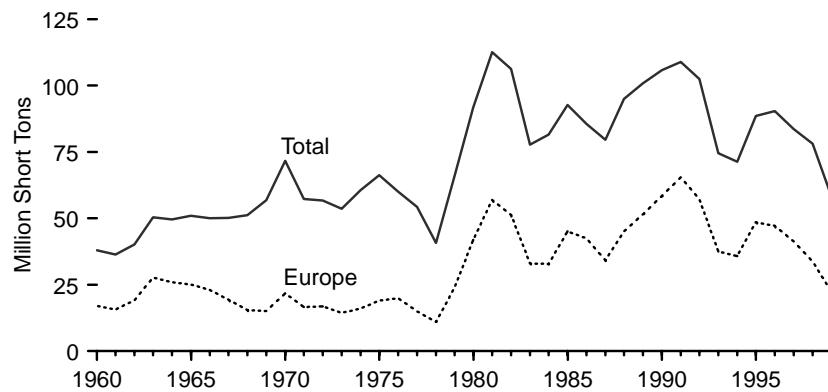
Web Page: <http://www.eia.doe.gov/fuelcoal.html>.

Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite" and "Coal-Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), *Energy Data Report, Coal-Bituminous and Lignite in 1976* and *Coal-Pennsylvania Anthracite 1976*. • 1977 and 1978—EIA, *Energy Data Report, Coal-Pennsylvania Anthracite 1977; 1978*, and *Weekly Coal Report*. • 1979 and 1980—EIA, *Energy Data Report, Weekly Coal Report*. • 1981-1998—EIA, *Quarterly Coal Report October-December*, quarterly reports. • 1999—Table 8.8 of this report and EIA, *Monthly Energy Review* (March 2000), Table 6.2.

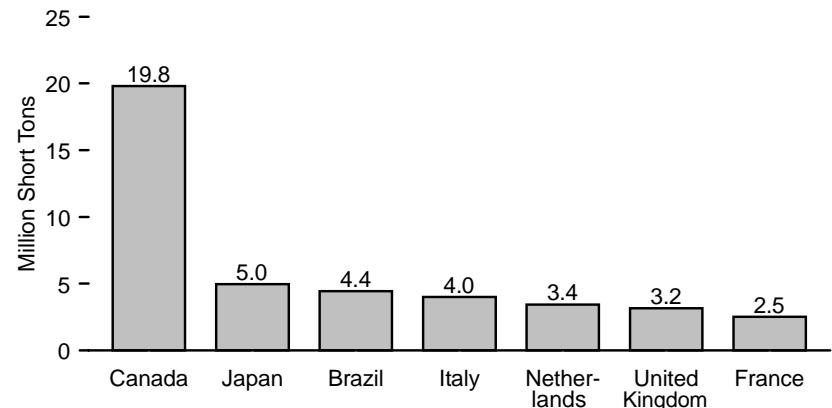
**Figure 7.4 Coal Exports by Country of Destination**

---

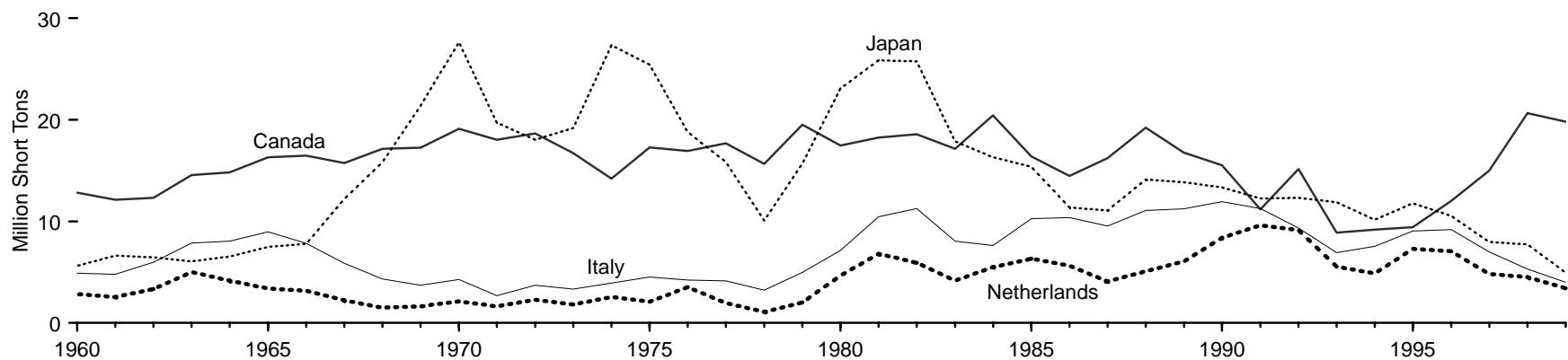
**Total and Europe, 1960-1999**



**By Selected Country, 1999**



**By Selected Country, 1960-1999**



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 7.4.

**Table 7.4 Coal Exports by Country of Destination, 1960-1999**  
 (Million Short Tons)

Year	Canada	Brazil	Europe										Japan	Other	Total
			Belgium and Luxembourg	Denmark	France	Germany <sup>1</sup>	Italy	Netherlands	Spain	United Kingdom	Other	Total			
1960	12.8	1.1	1.1	0.1	0.8	4.6	4.9	2.8	0.3	0.0	2.4	17.1	5.6	1.3	38.0
1961	12.1	1.0	1.0	0.1	0.7	4.3	4.8	2.6	0.2	0.0	2.0	15.7	6.6	1.0	36.4
1962	12.3	1.3	1.3	(s)	0.9	5.1	6.0	3.3	0.8	(s)	1.8	19.1	6.5	1.0	40.2
1963	14.6	1.2	2.7	(s)	2.7	5.6	7.9	5.0	1.5	0.0	2.4	27.7	6.1	0.9	50.4
1964	14.8	1.1	2.3	(s)	2.2	5.2	8.1	4.2	1.4	0.0	2.6	26.0	6.5	1.1	49.5
1965	16.3	1.2	2.2	(s)	2.1	4.7	9.0	3.4	1.4	(s)	2.3	25.1	7.5	0.9	51.0
1966	16.5	1.7	1.8	(s)	1.6	4.9	7.8	3.2	1.2	(s)	2.5	23.1	7.8	1.0	50.1
1967	15.8	1.7	1.4	0.0	2.1	4.7	5.9	2.2	1.0	0.0	2.1	19.4	12.2	1.0	50.1
1968	17.1	1.8	1.1	0.0	1.5	3.8	4.3	1.5	1.5	0.0	1.9	15.5	15.8	0.9	51.2
1969	17.3	1.8	0.9	0.0	2.3	3.5	3.7	1.6	1.8	0.0	1.3	15.2	21.4	1.2	56.9
1970	19.1	2.0	1.9	0.0	3.6	5.0	4.3	2.1	3.2	(s)	1.8	21.8	27.6	1.2	71.7
1971	18.0	1.9	0.8	0.0	3.2	2.9	2.7	1.6	2.6	1.7	1.1	16.6	19.7	1.1	57.3
1972	18.7	1.9	1.1	0.0	1.7	2.4	3.7	2.3	2.1	2.4	1.1	16.9	18.0	1.2	56.7
1973	16.7	1.6	1.2	0.0	2.0	1.6	3.3	1.8	2.2	0.9	1.3	14.4	19.2	1.6	53.6
1974	14.2	1.3	1.1	0.0	2.7	1.5	3.9	2.6	2.0	1.4	0.9	16.1	27.3	1.8	60.7
1975	17.3	2.0	0.6	0.0	3.6	2.0	4.5	2.1	2.7	1.9	1.6	19.0	25.4	2.6	66.3
1976	16.9	2.2	2.2	(s)	3.5	1.0	4.2	3.5	2.5	0.8	2.1	19.9	18.8	2.1	60.0
1977	17.7	2.3	1.5	0.1	2.1	0.9	4.1	2.0	1.6	0.6	2.1	15.0	15.9	3.5	54.3
1978	15.7	1.5	1.1	0.0	1.7	0.6	3.2	1.1	0.8	0.4	2.2	11.0	10.1	2.5	40.7
1979	19.5	2.8	3.2	0.2	3.9	2.6	5.0	2.0	1.4	1.4	4.4	23.9	15.7	4.1	66.0
1980	17.5	3.3	4.6	1.7	7.8	2.5	7.1	4.7	3.4	4.1	6.0	41.9	23.1	6.0	91.7
1981	18.2	2.7	4.3	3.9	9.7	4.3	10.5	6.8	6.4	2.3	8.8	57.0	25.9	8.7	112.5
1982	18.6	3.1	4.8	2.8	9.0	2.3	11.3	5.9	5.6	2.0	7.6	51.3	25.8	7.5	106.3
1983	17.2	3.6	2.5	1.7	4.2	1.5	8.1	4.2	3.3	1.2	6.4	33.1	17.9	6.1	77.8
1984	20.4	4.7	3.9	0.6	3.8	0.9	7.6	5.5	2.3	2.9	5.3	32.8	16.3	7.2	81.5
1985	16.4	5.9	4.4	2.2	4.5	1.1	10.3	6.3	3.5	2.7	10.3	45.1	15.4	9.9	92.7
1986	14.5	5.7	4.4	2.1	5.4	0.8	10.4	5.6	2.6	2.9	8.4	42.6	11.4	11.4	85.5
1987	16.2	5.8	4.6	0.9	2.9	0.5	9.5	4.1	2.5	2.6	6.6	34.2	11.1	12.3	79.6
1988	19.2	5.3	6.5	2.8	4.3	0.7	11.1	5.1	2.5	3.7	8.5	45.1	14.1	11.3	95.0
1989	16.8	5.7	7.1	3.2	6.5	0.7	11.2	6.1	3.3	4.5	8.9	51.6	13.8	12.9	100.8
1990	15.5	5.8	8.5	3.2	6.9	1.1	11.9	8.4	3.8	5.2	9.5	58.4	13.3	12.7	105.8
1991	11.2	7.1	7.5	4.7	9.5	1.7	11.3	9.6	4.7	6.2	10.4	65.5	12.3	13.0	109.0
1992	15.1	6.4	7.2	3.8	8.1	1.0	9.3	9.1	4.5	5.6	8.5	57.3	12.3	11.4	102.5
1993	8.9	5.2	5.2	0.3	4.0	0.5	6.9	5.6	4.1	4.1	6.9	37.6	11.9	11.0	74.5
1994	9.2	5.5	4.9	0.5	2.9	0.3	7.5	4.9	4.1	3.4	7.3	35.8	10.2	10.7	71.4
1995	9.4	6.4	4.5	2.1	3.7	2.0	9.1	7.3	4.7	4.7	10.7	48.6	11.8	12.4	88.5
1996	12.0	6.5	4.6	1.3	3.9	1.1	9.2	7.1	4.1	6.2	9.8	47.2	10.5	14.2	90.5
1997	15.0	7.5	4.3	0.4	3.4	0.9	7.0	4.8	4.1	7.2	9.2	41.3	8.0	11.8	83.5
1998	R20.7	6.5	3.2	0.3	3.2	1.2	5.3	4.5	3.2	5.9	6.9	33.8	7.7	9.4	R78.0
1999	19.8	4.4	2.1	0.0	2.5	0.6	4.0	3.4	2.5	3.2	4.3	22.5	5.0	6.7	58.5

<sup>1</sup> Through 1990, the data for Germany are for the former West Germany only. Beginning with 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.  
 R=Revised. (s)=Less than 0.05 million short tons.

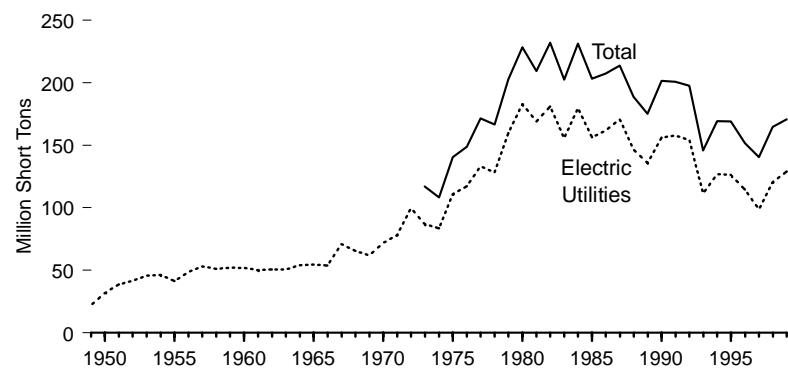
Note: Totals may not equal sum of components due to independent rounding.

Sources: • 1960-1988—U.S. Department of Commerce, Bureau of the Census. *U.S. Exports by Schedule B Commodities*, EM 522. • 1989-1998—Energy Information Administration, *Coal Industry Annual*, annual reports. • 1999—U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

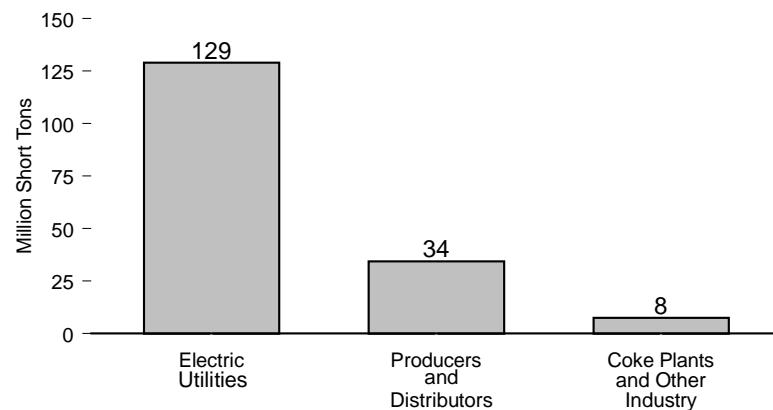
**Figure 7.5 Coal Stocks**

---

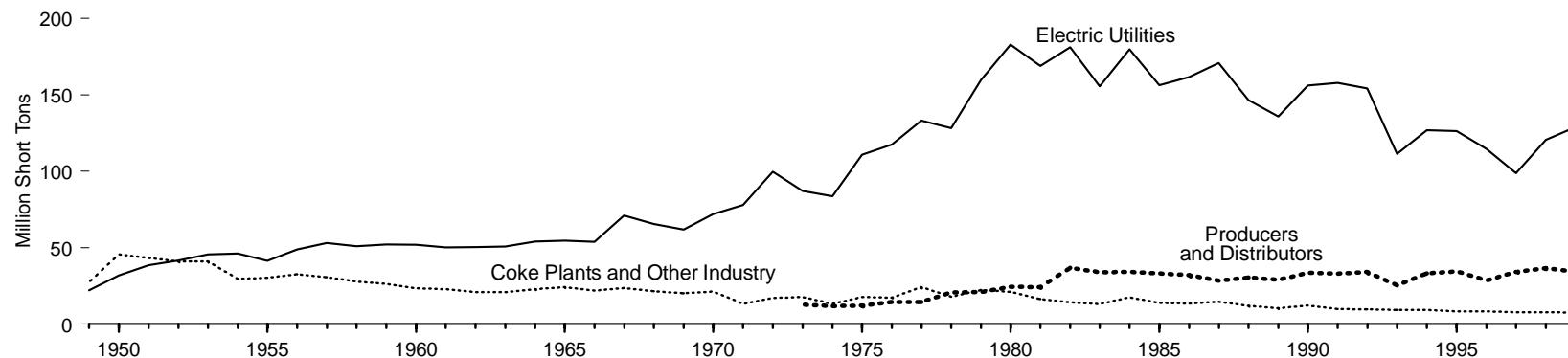
**Total and Electric Utility Stocks, 1949-1999**



**By Holding Entity, 1999**



**By Holding Entity, 1949-1999**



Notes: • Stocks are at end of year. • Because vertical scales differ, graphs should not be compared.

Source: Table 7.5.

**Table 7.5 Coal Stocks, 1949-1999**  
(Million Short Tons)

Year	Consumer					Producers and Distributors	Total
	Residential <sup>1</sup> and Commercial	Coke Plants	Other Industry <sup>2</sup>	Electric Utilities	Total		
1949	1.4	10.0	16.1	22.1	49.5	NA	NA
1950	2.5	16.8	26.2	31.8	77.3	NA	NA
1951	1.8	15.3	26.2	38.5	81.8	NA	NA
1952	1.7	14.5	24.7	41.5	82.4	NA	NA
1953	1.5	16.6	22.8	45.6	86.6	NA	NA
1954	0.8	12.4	16.4	46.1	75.7	NA	NA
1955	1.0	13.4	15.9	41.4	71.7	NA	NA
1956	1.1	14.0	17.4	48.8	81.3	NA	NA
1957	0.9	14.2	15.5	53.1	83.7	NA	NA
1958	0.9	13.1	13.7	51.0	78.7	NA	NA
1959	1.0	11.6	13.6	52.1	78.4	NA	NA
1960	0.7	11.1	11.6	51.7	75.2	NA	NA
1961	0.5	10.5	11.9	50.1	73.0	NA	NA
1962	0.5	8.4	12.0	50.4	71.3	NA	NA
1963	0.5	8.1	12.3	50.6	71.5	NA	NA
1964	0.4	10.2	12.2	53.9	76.7	NA	NA
1965	0.4	10.6	13.1	54.5	78.6	NA	NA
1966	0.2	9.3	12.2	53.9	75.6	NA	NA
1967	0.2	11.1	12.3	71.0	94.6	NA	NA
1968	0.2	9.7	11.7	65.5	87.0	NA	NA
1969	0.2	9.1	10.8	61.9	81.9	NA	NA
1970	0.3	9.0	11.8	71.9	93.0	NA	NA
1971	0.3	7.3	5.6	77.8	91.0	NA	NA
1972	0.3	9.1	7.6	99.7	116.8	NA	NA
1973	0.3	7.0	10.4	87.0	104.6	12.5	117.2
1974	0.3	6.2	6.6	83.5	96.6	11.6	108.2
1975	0.2	8.8	8.5	110.7	128.3	12.1	140.4
1976	0.2	9.9	7.1	117.4	134.7	14.2	148.9
1977	0.2	12.8	11.1	133.2	157.3	14.2	171.5
1978	0.4	8.3	9.0	128.2	145.9	20.7	166.6
1979	0.3	10.2	11.8	159.7	182.0	20.8	202.8
1980	NA	9.1	12.0	183.0	204.0	24.4	228.4
1981	NA	6.5	9.9	168.9	185.3	24.1	209.4
1982	NA	4.6	9.5	181.1	195.3	36.8	232.0
1983	NA	4.3	8.7	155.6	168.7	33.9	202.6
1984	NA	6.2	11.3	179.7	197.2	34.1	231.3
1985	NA	3.4	10.4	156.4	170.2	33.1	203.4
1986	NA	3.0	10.4	161.8	175.2	32.1	207.3
1987	NA	3.9	10.8	170.8	185.5	28.3	213.8
1988	NA	3.1	8.8	146.5	158.4	30.4	188.8
1989	NA	2.9	7.4	135.9	146.1	29.0	175.1
1990	NA	3.3	8.7	156.2	168.2	33.4	201.6
1991	NA	2.8	7.1	157.9	167.7	33.0	200.7
1992	NA	2.6	7.0	154.1	163.7	34.0	197.7
1993	NA	2.4	6.7	111.3	120.5	25.3	145.7
1994	NA	2.7	6.6	126.9	136.1	33.2	169.4
1995	NA	2.6	5.7	126.3	134.6	34.4	169.1
1996	NA	2.7	5.7	114.6	123.0	28.6	151.6
1997	NA	2.0	5.6	98.8	106.4	34.0	140.4
1998	NA	2.0	R5.5	120.5	R128.1	R36.5	R164.6
1999	NA	E2.0	E5.5	P128.9	E136.4	E34.4	E170.8

<sup>1</sup> Stocks at retail dealers, excluding anthracite.

<sup>2</sup> Includes transportation sector.

R=Revised. P=Preliminary. E=Estimated. NA=Not available.

Notes: • Stocks are at end of year. • Totals may not equal sum of components due to independent rounding.

Web Page: <http://www.eia.doe.gov/fuelcoal.html>.

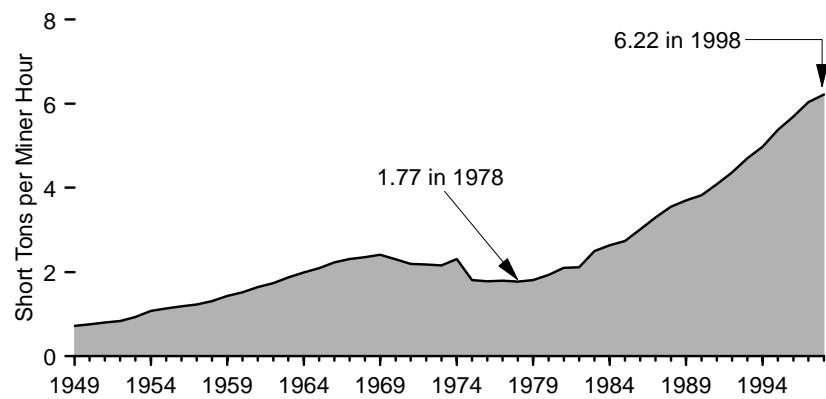
Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite" and

"Coal-Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), Energy Data Report, *Coal-Bituminous and Lignite in 1976* and *Coal-Pennsylvania Anthracite 1976*. • 1977 and 1978—EIA, Energy Data Report, *Coal-Pennsylvania Anthracite 1977; 1978*, and *Weekly Coal Report*. • 1979—EIA, Energy Data Report, *Weekly Coal Report*. • 1980-1998—EIA, *Quarterly Coal Report October-December*, quarterly reports. • 1999—Table 8.12 of this report and EIA, *Monthly Energy Review* (March 2000), Table 6.3.

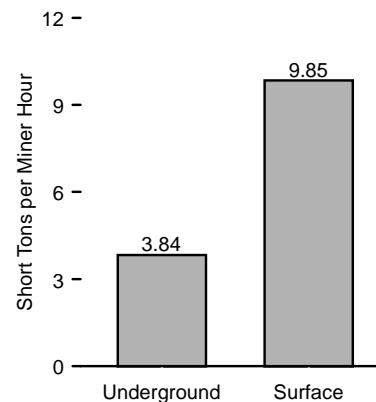
**Figure 7.6 Coal Mining Productivity**

---

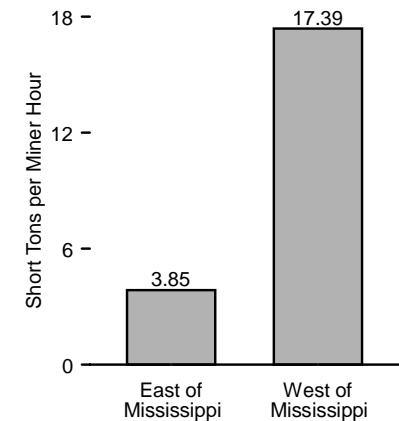
**Total, 1949-1998**



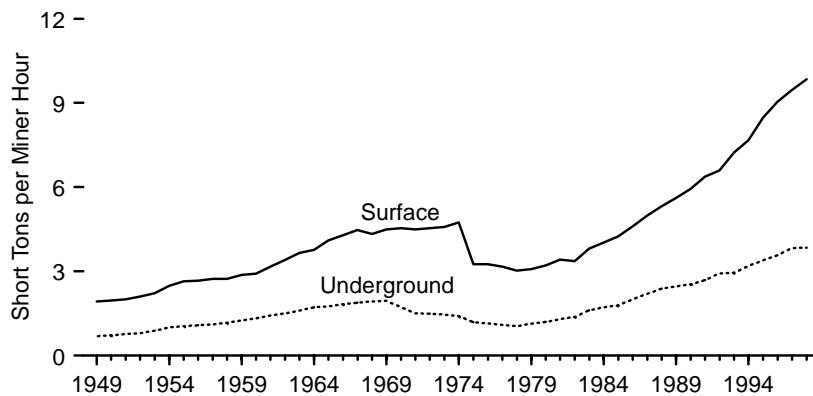
**Mining Methods, 1998**



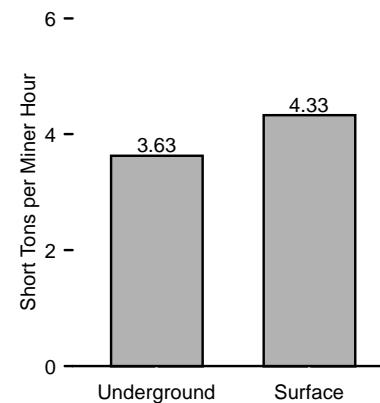
**Location, 1998**



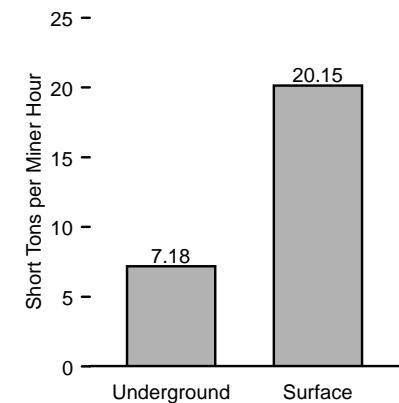
**Mining Method,<sup>1</sup> 1949-1998**



**East of Mississippi, 1998**



**West of Mississippi, 1998**



<sup>1</sup> For 1979 forward, includes all coal; prior to 1979, excludes anthracite.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 7.6.

**Table 7.6 Coal Mining Productivity, 1949-1998**

(Short Tons per Miner Hour <sup>1</sup>)

Year	Mining Method		Location						Total	
	Underground	Surface	East of the Mississippi			West of the Mississippi				
			Underground	Surface	Total	Underground	Surface	Total		
1949	20.68	21.92	NA	NA	NA	NA	NA	NA	0.72	
1950	20.72	21.96	NA	NA	NA	NA	NA	NA	0.76	
1951	20.76	22.00	NA	NA	NA	NA	NA	NA	0.80	
1952	20.80	22.10	NA	NA	NA	NA	NA	NA	0.84	
1953	20.88	22.22	NA	NA	NA	NA	NA	NA	0.93	
1954	21.00	22.48	NA	NA	NA	NA	NA	NA	1.08	
1955	21.04	22.65	NA	NA	NA	NA	NA	NA	1.14	
1956	21.08	22.67	NA	NA	NA	NA	NA	NA	1.19	
1957	21.11	22.73	NA	NA	NA	NA	NA	NA	1.23	
1958	21.17	22.73	NA	NA	NA	NA	NA	NA	1.31	
1959	21.26	22.87	NA	NA	NA	NA	NA	NA	1.43	
1960	21.33	22.91	NA	NA	NA	NA	NA	NA	1.52	
1961	21.43	23.16	NA	NA	NA	NA	NA	NA	1.64	
1962	21.50	23.40	NA	NA	NA	NA	NA	NA	1.74	
1963	21.60	23.66	NA	NA	NA	NA	NA	NA	1.87	
1964	21.72	23.76	NA	NA	NA	NA	NA	NA	1.99	
1965	21.75	24.10	NA	NA	NA	NA	NA	NA	2.09	
1966	21.83	24.28	NA	NA	NA	NA	NA	NA	2.23	
1967	21.88	24.48	NA	NA	NA	NA	NA	NA	2.31	
1968	21.93	24.33	NA	NA	NA	NA	NA	NA	2.35	
1969	21.95	24.50	NA	NA	NA	NA	NA	NA	2.41	
1970	21.72	24.53	NA	NA	NA	NA	NA	NA	2.30	
1971	21.50	24.49	NA	NA	NA	NA	NA	NA	2.19	
1972	21.49	24.54	NA	NA	NA	NA	NA	NA	2.18	
1973	21.46	24.58	NA	NA	NA	NA	NA	NA	2.16	
1974	21.41	24.74	NA	NA	NA	NA	NA	NA	2.31	
1975	21.19	23.26	NA	NA	NA	NA	NA	NA	1.81	
1976	21.14	23.25	NA	NA	NA	NA	NA	NA	1.78	
1977	21.09	23.16	NA	NA	NA	NA	NA	NA	1.80	
1978	21.04	23.03	NA	NA	NA	NA	NA	NA	1.77	
1979	1.13	3.08	NA	NA	NA	NA	NA	NA	1.81	
1980	1.20	3.21	NA	NA	NA	NA	NA	NA	1.93	
1981	1.29	3.42	NA	NA	NA	NA	NA	NA	2.10	
1982	1.37	3.36	NA	NA	NA	NA	NA	NA	2.11	
1983	1.61	3.81	NA	NA	NA	NA	NA	NA	2.50	
1984	1.72	4.03	1.69	2.56	1.98	2.49	8.15	7.07	2.64	
1985	1.78	4.24	1.75	2.52	2.00	2.45	8.61	7.40	2.74	
1986	2.00	4.60	1.96	2.75	2.21	2.80	9.02	7.90	3.01	
1987	2.20	4.98	2.16	2.97	2.42	3.39	9.86	8.73	3.30	
1988	2.38	5.32	2.32	2.99	2.54	3.55	10.73	9.38	3.55	
1989	2.46	5.61	2.39	3.13	2.63	3.92	11.86	10.21	3.70	
1990	2.54	5.94	2.46	3.32	2.73	4.01	12.26	10.41	3.83	
1991	2.69	6.38	2.59	3.49	2.86	4.53	12.36	10.79	4.09	
1992	2.93	6.59	2.82	3.61	3.07	4.85	12.49	11.03	4.36	
1993	2.95	7.23	2.81	3.74	3.11	5.18	13.94	12.14	4.70	
1994	3.19	7.67	3.02	3.85	3.28	5.93	15.19	13.22	4.98	
1995	3.39	8.48	3.19	4.03	3.45	6.32	16.23	14.18	5.38	
1996	3.57	9.05	3.36	4.25	3.63	7.03	17.89	15.66	5.69	
1997	3.83	9.46	3.63	4.49	3.89	6.82	18.63	16.04	6.04	
1998	3.84	9.85	3.63	4.33	3.85	7.18	20.15	17.39	6.22	

<sup>1</sup> Data for bituminous, subbituminous, and lignite mines 1949-1973 and anthracite mines 1949-1978 were originally reported in short tons per miner-day. The data were converted to short-tons per miner-hour by assuming an eight-hour day. All remaining data were calculated by dividing total production by total labor hours worked by all mine employees except office workers.

<sup>2</sup> Anthracite mining productivity is unavailable by underground and surface but is included in the Total.

NA=Not available.

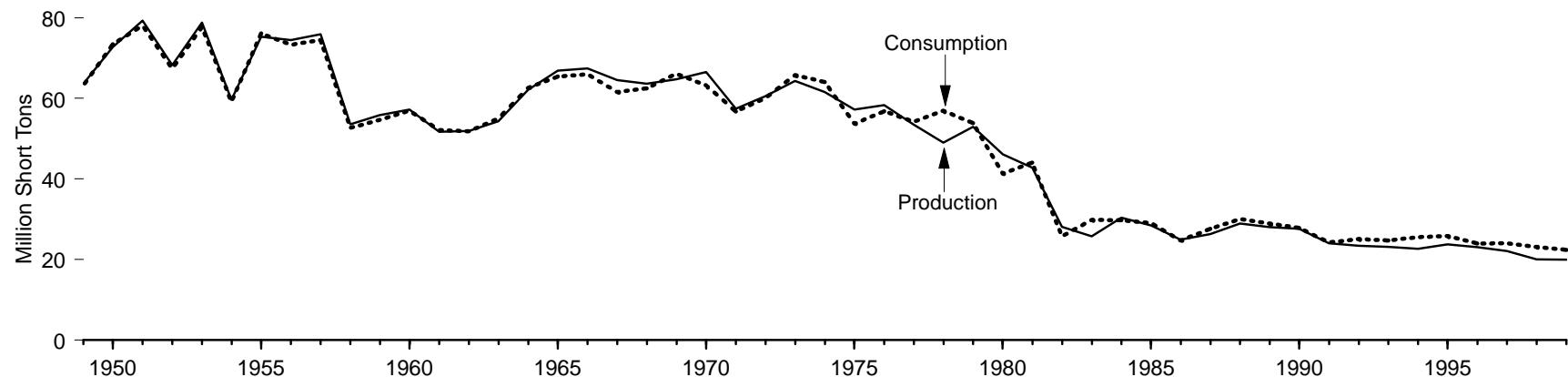
Web Page: <http://www.eia.doe.gov/fuelcoal.html>.

Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite" and "Coal-Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), Energy Data Report, *Coal-Bituminous and Lignite* in 1976 and *Coal-Pennsylvania Anthracite* 1976. • 1977 and 1978—EIA, Energy Data Report, *Bituminous Coal and Lignite Production and Mine Operations*-1977; 1978 and *Coal-Pennsylvania Anthracite* 1977; 1978. • 1979—EIA, Energy Data Report, *Coal Production*-1979. • 1980-1988—EIA, *Coal Production*, annual reports. • 1989 forward—EIA, *Coal Industry Annual*, annual reports.

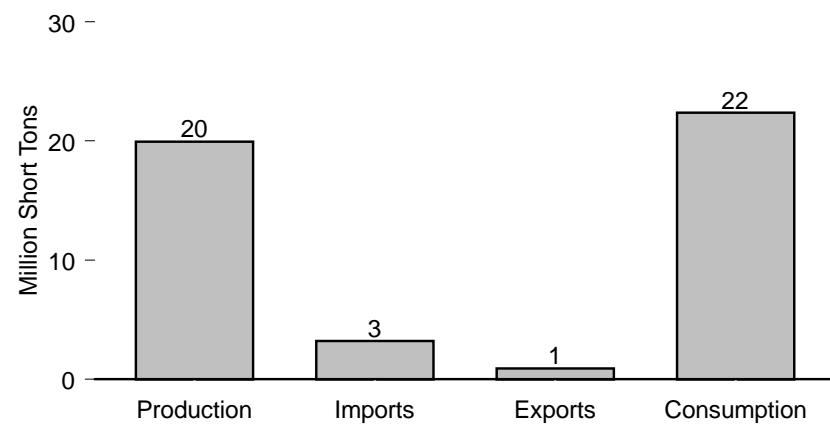
**Figure 7.7 Coke Overview**

---

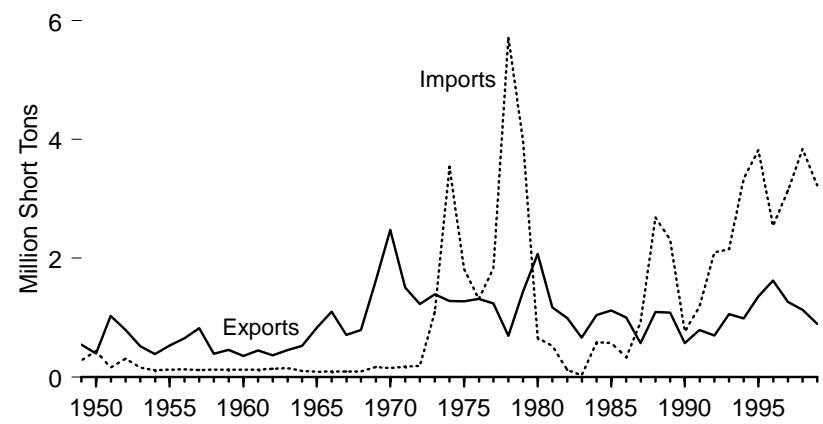
**Production and Consumption, 1949-1999**



**Overview, 1999**



**Trade, 1949-1999**



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 7.7.

**Table 7.7 Coke Overview, 1949-1999**

(Million Short Tons)

Year	Production	Imports	Exports	Stock Change <sup>1</sup>	Consumption <sup>2</sup>
1949	63.64	0.28	0.55	0.18	63.19
1950	72.72	0.44	0.40	-0.66	73.42
1951	79.33	0.16	1.03	0.37	78.09
1952	68.25	0.31	0.79	0.42	67.36
1953	78.84	0.16	0.52	0.78	77.70
1954	59.66	0.12	0.39	0.27	59.12
1955	75.30	0.13	0.53	-1.25	76.15
1956	74.48	0.13	0.66	0.63	73.32
1957	75.95	0.12	0.82	0.81	74.43
1958	53.60	0.12	0.39	0.68	52.66
1959	55.86	0.12	0.46	0.86	54.67
1960	57.23	0.13	0.35	0.06	56.95
1961	51.71	0.13	0.45	-0.70	52.09
1962	51.91	0.14	0.36	-0.14	51.82
1963	54.28	0.15	0.45	-1.02	55.00
1964	62.15	0.10	0.52	-0.91	62.64
1965	66.85	0.09	0.83	0.73	65.38
1966	67.40	0.10	1.10	0.38	66.02
1967	64.58	0.09	0.71	2.39	61.57
1968	63.65	0.09	0.79	0.52	62.44
1969	64.76	0.17	1.63	-2.87	66.17
1970	66.53	0.15	2.48	0.99	63.21
1971	57.44	0.17	1.51	-0.59	56.69
1972	60.51	0.19	1.23	-0.59	60.05
1973	64.33	1.09	1.40	-1.74	65.77
1974	61.58	3.54	1.28	-0.25	64.09
1975	57.21	1.82	1.27	4.06	53.69
1976	58.33	1.31	1.32	1.50	56.83
1977	53.51	1.83	1.24	-0.05	54.14
1978	49.01	5.72	0.69	-2.91	56.95
1979	52.94	3.97	1.44	1.65	53.83
1980	46.13	0.66	2.07	3.44	41.28
1981	42.79	0.53	1.17	-1.90	44.05
1982	28.12	0.12	0.99	1.47	25.78
1983	25.81	0.04	0.67	-4.67	29.85
1984	30.40	0.58	1.05	0.20	29.74
1985	28.44	0.58	1.12	-1.16	29.06
1986	24.92	0.33	1.00	-0.49	24.73
1987	26.30	0.92	0.57	-1.00	27.65
1988	28.95	2.69	1.09	0.52	30.02
1989	28.05	2.31	1.09	0.34	28.93
1990	27.62	0.77	0.57	(s)	27.81
1991	24.05	R1.18	R0.79	0.19	R24.25
1992	23.41	R2.10	R0.70	-0.22	R25.03
1993	23.18	R2.16	R1.06	-0.42	R24.70
1994	22.69	R3.34	R0.99	-0.53	R25.56
1995	23.75	R3.82	R1.36	0.37	R25.85
1996	23.08	R2.54	R1.62	0.02	R23.97
1997	22.12	R3.14	R1.27	-0.03	R24.02
1998	R20.04	R3.83	R1.13	R-0.36	R23.11
1999 <sup>P</sup>	19.95	3.22	0.90	-0.08	22.36

<sup>1</sup> Producer and distributor stocks at end of year. A negative value indicates a net decrease in stocks; a positive value indicates a net increase in stocks.

<sup>2</sup> "Consumption" is calculated as the sum of production and imports minus exports and stock change.

R=Revised. P=Preliminary. (s)=Less than 0.005 million short tons.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: <http://www.eia.doe.gov/fuelcoal.html>.

Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter.

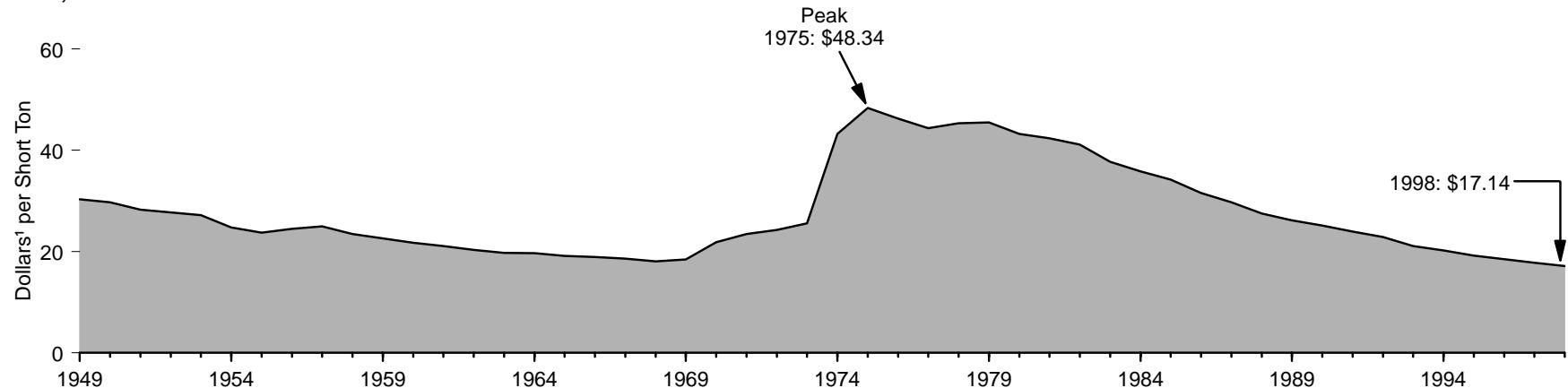
• 1976-1980—Energy Information Administration (EIA), Energy Data Report, *Coke and Coal Chemicals*, annual reports. • 1981-1998—EIA, *Quarterly Coal Report October-December*, quarterly reports.

• 1999—EIA estimates.

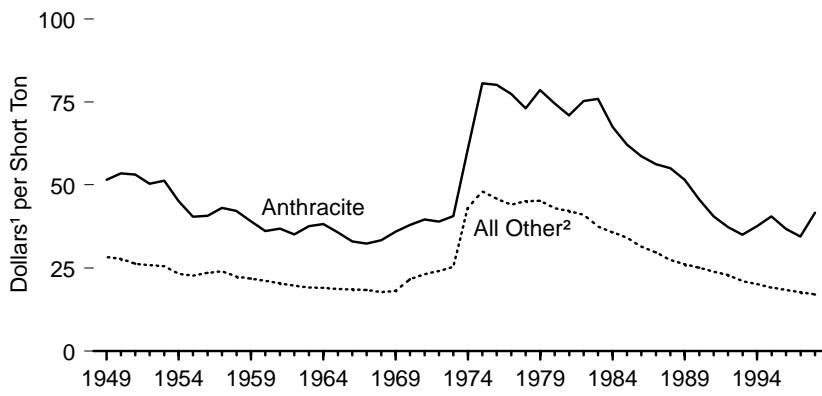
**Figure 7.8 Coal Prices**

---

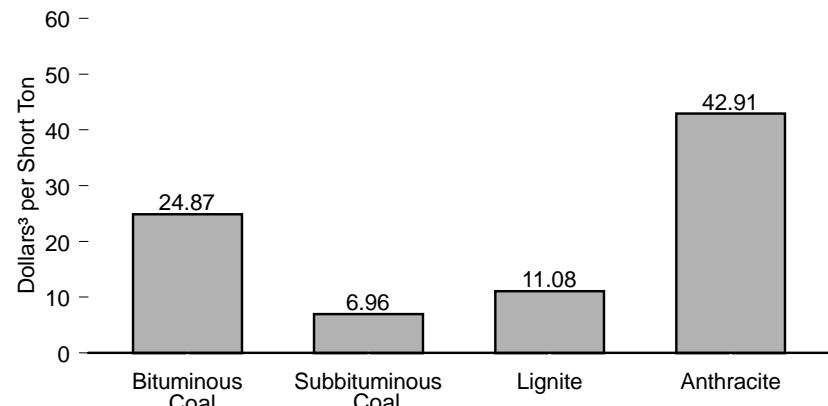
**Total, 1949-1998**



**By Type, 1949-1998**



**By Type, 1998**



<sup>1</sup> In chained (1996) dollars, calculated by using gross domestic implicit price deflators.  
See Table E1.

<sup>2</sup> Bituminous coal, subbituminous coal, and lignite.

<sup>3</sup> Nominal dollars.  
Note: Because vertical scales differ, graphs should not be compared.  
Source: Table 7.8.

**Table 7.8 Coal Prices, 1949-1998**

(Dollars per Short Ton)

Year	Bituminous Coal		Subbituminous Coal		Lignite		Subtotal <sup>1</sup>		Anthracite		Total	
	Nominal	Real <sup>2</sup>	Nominal	Real <sup>2</sup>	Nominal	Real <sup>2</sup>	Nominal	Real <sup>2</sup>	Nominal	Real <sup>2</sup>	Nominal	Real <sup>2</sup>
1949	\$4.90	\$28.39	(4)	(4)	2.37	R\$13.73	4.88	R\$28.27	8.90	R\$51.56	5.24	R\$30.36
1950	\$4.86	\$27.85	(4)	(4)	2.41	R\$13.81	4.84	R\$27.74	9.34	R\$53.52	5.19	R\$29.74
1951	\$4.94	\$26.40	(4)	(4)	2.44	R\$13.04	4.92	R\$26.30	9.94	R\$53.13	5.29	R\$28.27
1952	\$4.92	\$25.89	(4)	(4)	2.39	R\$12.58	4.90	R\$25.79	9.58	R\$50.42	5.27	R\$27.74
1953	\$4.94	\$25.66	(4)	(4)	2.38	R\$12.36	4.92	R\$25.56	9.87	R\$51.27	5.23	R\$27.17
1954	\$4.54	\$23.35	(4)	(4)	2.43	R\$12.50	4.52	R\$23.25	8.76	R\$45.06	4.81	R\$24.74
1955	\$4.51	\$22.80	(4)	(4)	2.38	R\$12.03	4.50	R\$22.75	8.00	R\$40.44	4.69	R\$23.71
1956	\$4.83	\$23.62	(4)	(4)	2.39	R\$11.69	4.82	R\$23.57	8.33	R\$40.73	5.01	R\$24.50
1957	\$5.09	\$24.09	(4)	(4)	2.35	R\$11.12	5.08	R\$24.04	9.11	R\$43.11	5.28	R\$24.99
1958	\$4.87	\$22.50	(4)	(4)	2.35	R\$10.86	4.86	R\$22.46	9.14	R\$42.24	5.07	R\$23.43
1959	\$4.79	\$21.89	(4)	(4)	2.25	R\$10.28	4.77	R\$21.80	8.55	R\$39.08	4.95	R\$22.62
1960	\$4.71	\$21.23	(4)	(4)	2.29	R\$10.32	4.69	R\$21.14	8.01	R\$36.10	4.83	R\$21.77
1961	\$4.60	\$20.50	(4)	(4)	2.24	R\$9.98	4.58	R\$20.41	8.26	R\$36.81	4.73	R\$21.08
1962	\$4.50	\$19.79	(4)	(4)	2.23	R\$9.81	4.48	R\$19.70	7.99	R\$35.14	4.62	R\$20.32
1963	\$4.40	\$19.13	(4)	(4)	2.17	R\$9.43	4.39	R\$19.09	8.64	R\$37.57	4.55	R\$19.78
1964	\$4.46	\$19.11	(4)	(4)	2.14	R\$9.17	4.45	R\$19.07	8.93	R\$38.26	4.60	R\$19.71
1965	\$4.45	\$18.71	(4)	(4)	2.13	R\$8.96	4.44	R\$18.67	8.51	R\$35.79	4.55	R\$19.13
1966	\$4.56	\$18.64	(4)	(4)	1.98	R\$8.09	4.54	R\$18.56	8.08	R\$33.03	4.62	R\$18.89
1967	\$4.64	\$18.41	(4)	(4)	1.92	R\$7.62	4.62	R\$18.33	8.15	R\$32.33	4.69	R\$18.60
1968	\$4.70	\$17.87	(4)	(4)	1.79	R\$6.81	4.67	R\$17.76	8.78	R\$33.38	4.75	R\$18.06
1969	\$5.02	\$18.19	(4)	(4)	1.86	R\$6.74	4.99	R\$18.09	9.91	R\$35.92	5.08	R\$18.41
1970	\$6.30	\$21.68	(4)	(4)	1.86	R\$6.40	6.26	R\$21.54	11.03	R\$37.96	6.34	R\$21.82
1971	\$7.13	\$23.36	(4)	(4)	1.93	R\$6.32	7.07	R\$23.17	12.08	R\$39.58	7.15	R\$23.43
1972	\$7.78	\$24.45	(4)	(4)	2.04	R\$6.41	7.66	R\$24.07	12.40	R\$38.97	7.72	R\$24.26
1973	\$8.71	\$25.92	(4)	(4)	2.09	R\$6.22	8.53	R\$25.39	13.65	R\$40.63	8.59	R\$25.57
1974	\$16.01	\$43.72	(4)	(4)	2.19	R\$5.98	15.75	R\$43.01	22.19	R\$60.60	15.82	R\$43.20
1975	\$19.79	\$49.44	(4)	(4)	3.17	R\$7.92	19.23	R\$48.04	32.26	R\$80.59	19.35	R\$48.34
1976	\$20.11	\$47.54	(4)	(4)	3.74	R\$8.84	19.43	R\$45.93	33.92	R\$80.19	19.56	R\$46.24
1977	\$20.59	\$45.74	(4)	(4)	4.03	R\$8.95	19.82	R\$44.02	34.86	R\$77.43	19.95	R\$44.31
1978	\$22.64	\$46.94	(4)	(4)	5.68	R\$11.78	21.76	R\$45.12	35.25	R\$73.09	21.86	R\$45.32
1979	\$27.31	\$52.27	9.55	R\$18.28	6.48	R\$12.40	23.66	R\$45.28	41.06	R\$78.58	23.75	R\$45.45
1980	\$29.17	R\$11.14	11.08	R\$19.42	W	W	24.52	R\$42.99	42.51	R\$74.53	24.65	R\$43.22
1981	\$31.51	R\$0.52	12.18	R\$19.53	W	W	26.29	R\$42.15	44.28	R\$71.00	26.40	R\$42.33
1982	\$32.15	R\$48.53	13.37	R\$20.18	W	W	27.14	R\$40.97	49.85	R\$75.25	27.25	R\$41.13
1983	\$31.11	R\$45.17	13.03	R\$18.92	W	W	25.85	R\$37.53	52.29	R\$75.91	25.98	R\$37.72
1984	\$30.63	R\$42.88	12.41	R\$17.37	10.45	R\$14.63	25.51	R\$35.71	48.22	R\$67.50	25.61	R\$35.85
1985	\$30.78	R\$41.77	12.57	R\$17.06	10.68	R\$14.49	25.10	R\$34.06	45.80	R\$62.15	25.20	R\$34.20
1986	\$28.84	R\$38.30	12.26	R\$16.28	10.64	R\$14.13	23.70	R\$31.47	44.12	R\$58.58	23.79	R\$31.59
1987	\$28.19	R\$36.34	11.32	R\$14.59	10.85	R\$13.99	23.00	R\$29.65	43.65	R\$56.26	23.07	R\$29.74
1988	\$27.66	R\$34.48	10.45	R\$13.03	10.06	R\$12.54	22.00	R\$27.43	44.16	R\$55.06	22.07	R\$27.52
1989	\$27.40	R\$32.91	10.16	R\$12.20	9.91	R\$11.90	21.76	R\$26.13	42.93	R\$51.56	21.82	R\$26.20
1990	\$27.43	R\$31.71	9.70	R\$11.21	10.13	R\$11.71	21.71	R\$25.10	39.40	R\$45.54	21.76	R\$25.15
1991	\$27.49	R\$30.66	9.68	R\$10.80	10.89	R\$12.15	21.45	R\$23.92	36.34	R\$40.53	21.49	R\$23.97
1992	\$26.78	R\$29.16	9.68	R\$10.54	10.81	R\$11.77	20.99	R\$22.85	34.24	R\$37.28	21.03	R\$22.90
1993	\$26.15	R\$27.80	9.33	R\$9.92	11.11	R\$11.81	19.79	R\$21.04	32.94	R\$35.02	19.85	R\$21.11
1994	\$25.68	R\$26.75	8.37	R\$8.72	10.77	R\$11.22	19.34	R\$20.14	36.07	R\$37.57	19.41	R\$20.22
1995	\$25.56	R\$26.06	8.10	R\$8.26	10.83	R\$11.04	18.74	R\$19.10	39.78	R\$40.55	18.83	R\$19.19
1996	\$25.17	R\$25.17	7.87	R\$7.87	10.92	R\$10.92	18.42	R\$18.42	36.78	R\$36.78	18.50	R\$18.50
1997	\$24.64	R\$24.18	7.42	R\$7.28	10.91	R\$10.71	R\$18.07	R\$17.73	35.12	R\$34.46	18.14	R\$17.80
1998	R\$24.87	R\$24.12	R\$6.96	R\$6.75	R\$11.08	R\$10.75	R\$17.55	R\$17.02	R\$42.91	R\$41.62	R\$17.67	R\$17.14

<sup>1</sup> Subtotal of bituminous coal, subbituminous coal, and lignite.

<sup>2</sup> In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

<sup>3</sup> Includes subbituminous coal.

<sup>4</sup> Included in bituminous coal.

R=Revised. W-Withheld to avoid disclosure of individual company data.

Note: Prices are free-on-board (f.o.b.) mine prices. See Glossary.

Web Page: <http://www.eia.doe.gov/fuelcoal.html>.

Sources: Bituminous Coal, Subbituminous Coal, and Lignite: • 1949-1975—Bureau of Mines,

Minerals Yearbook, "Coal-Bituminous and Lignite" chapter. • 1976—Energy Information Administration (EIA), Energy Data Report, Coal-Bituminous and Lignite in 1976. • 1977 and 1978—EIA, Energy Data Report, Bituminous Coal and Lignite Production and Mine Operations-1977; 1978. • 1979-1992—EIA, Coal Production, annual reports. • 1993-1998—EIA, Coal Industry Annual, annual reports. Anthracite: • 1949-1976—Bureau of Mines, Minerals Yearbook, "Coal-Pennsylvania Anthracite" chapter. • 1977 and 1978—EIA, Energy Data Report, Coal-Pennsylvania Anthracite 1977; 1978. • 1979—EIA, Energy Data Report, Coal Production-1979. • 1980-1992—EIA, Coal Production, annual reports. • 1993-1998—EIA, Coal Industry Annual, annual reports. Total: • 1949-1978—Calculated as a production weighted average of the rank prices shown. • 1979-1998—EIA, Coal Industry Annual, annual reports.

## **Coal Note**

Data in this report on the consumption of bituminous coal (including subbituminous coal), lignite, and anthracite are generated primarily from consumption data reported in surveys. Included are data reported by all electric utility companies and coke plant companies. Data on coal consumption by all industrial and manufacturing establishments and by the residential and commercial sector are based on distribution data obtained

quarterly from coal companies. Included in each sector's data are the following: Electric Power Industry—consumption by privately and publicly owned establishments engaged in the generation and/or distribution of electric power primarily for sale or resale; Industrial and Miscellaneous Sector—consumption at manufacturing plants, large commercial establishments, coking plants, and by agriculture, mining (other than coal mining), and construction industries; Transportation Sector—sales to railroads and vessel bunkers; Residential and Commercial Sector—retail dealer sales to households and small commercial establishments.